Reply to Office Action of June 22, 2011

AMENDMENTS TO THE CLAIMS

Pursuant to 37 C.F.R. § 1.121, the following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A cemented carbide material for a surface coated gear cutting tool which wherein the cemented carbide material is employed in as a substrate for a the surface coated gear cutting tool obtained by forming a hard coated layer on a surface of said substrate,

said cemented carbide material for a surface coated gear cutting tool-comprising a WC-βt-Co based cemented carbide[[,]];

wherein said WC-βt-Co based cemented carbide comprises: WC, a βt solid solution and Co; wherein said WC and said βt solid solution form a hard phase, and said Co forms a binder phase;

wherein [[a]] the content of said Co forming a binder phase of said cemented carbide material for a surface coated gear cutting tool-is in a range of 12 to 17 wt%, and;

wherein said βt solid solution comprises: WC, TiC, TiN and either one or both of Ta carbonitride and Nb carbonitride;

wherein among components of a-said βt solid solution-forming a hard phase of said eemented earbide material for a surface coated gear cutting tool, [[a]] the content of the components excluding said WC [[is]] are in [[a]] the range of 15 to 20 wt%, and [[a]] the total content of said Ta carbonitride and said Nb carbonitride is in a range of 5 to 7 wt%[[,]];

wherein said \(\beta \) solid-solution comprises: TiC; TiN; Ta carbonitride; and Nb carbonitride, and

wherein a Nb content D_{Nb} and a Ta content D_{Ta} in said βt solid solution satisfy a relational expression of $D_{Nb}/(D_{Nb}+D_{Ta}) \geq 0.7[[,]]$; and

wherein said cemented carbide material is employed as a substrate for a surface coated gear cutting tool obtained by forming a metal carbonitride hard coat layer on a surface of said substrate

wherein said cemented carbide material is a nitrogen atmosphere sintered green compact of starting material powders that has been subsequently heat treated at a temperate significantly below its sintering temperature.

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- 2. (Canceled)
- 3. (Currently Amended). [[A]] <u>The</u> cemented carbide material for a surface coated gear cutting tool according to claim 1, wherein a fracture toughness at room temperature is in a range of 9.5 to 13 MPa(m)^{1/2}.
- 4. (Currently Amended). A surface coated gear cutting tool comprising a-the cemented carbide material for a surface coated gear cutting tools tool according to claim 1.
 - 5-8. (Canceled)